

ABSTRACT OF THE DISCLOSURE

5 A conveyor belt scale system for increasing the weight measurement accuracy
of a conveyor belt scale. The conveyor belt scale system includes a conveyor having a
support frame and a belt, a first load cell positioned within the conveyor for measuring
the belt after receiving a load of material (full weight), a second load cell positioned
within the conveyor for measuring the belt prior to receiving a load of material (empty
10 weight), a velocity sensor within the conveyor for measuring the velocity of the belt,
and a control unit in communication with the sensors. The control unit measures the
empty weight and the full weight of the belt upon a plurality of locations upon the belt.
The control unit corresponds the empty weight with the full weight of each of the
measured locations to calculate the material net weight.

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